

LISTING OF THE CLAIMS

The listing of claims set forth below will replace all prior versions and listings of claims in the application.

- 1-4. (Canceled)
5. (Currently amended) An injection moulded article produced from a bimodal ~~multimodal~~ polyethylene composition having a MWD of 2 to 10 and a density of 905 to 930 kg/m³ and comprising as comonomers to ethylene at least two C₄₋₁₂ alpha-olefins
 - (a) a lower molecular weight polymer which is a binary copolymer of ethylene and 1-butene, and
 - (b) a higher molecular weight polymer which is either a binary copolymer of ethylene and 1-hexene, or a terpolymer of ethylene, 1-butene and a C₆ to C₁₂ alpha-olefin.
6. (Currently amended) An injection moulded article produced from a bimodal ~~multimodal~~ polyethylene composition having a MWD of 2 to 10 and a density of 905 to 930 kg/m³ as ~~claimed in claim 5~~ comprising a ~~multimodal polyethylene composition comprising:~~
 - a) a lower molecular weight homopolymer of ethylene; and
 - b) a higher molecular weight terpolymer of ethylene, 1-butene and a C₅ to C₁₂ alpha-olefin.
7. (Canceled)
8. (Canceled)
9. (Currently amended) An article as claimed in claim 5, wherein the ratio of components a) to b) is 60:40 to 40:60 wt%.
10. (Currently amended) An article as claimed in claim 5, wherein the bimodal ~~multimodal~~ polyethylene composition has a MWD of from 2 to 8.
11. (Canceled)
12. (Currently amended) An article as claimed in claim 5, wherein the bimodal ~~multimodal~~ polyethylene composition has an impact strength (IS0179 at 23 °C) of at least 40 kJ/m³

kJ/m².

13. (Currently amended) An article as claimed in claim 5, wherein the bimodal ~~multimodal~~ polyethylene composition has a tensile modulus (ISO527-2) of from 60 to 400 MPa.
14. (Currently amended) An article as claimed in claim 5, wherein the bimodal ~~multimodal~~ polyethylene composition has a hexane extractable fraction (ASTM D5277) of less than 3 wt%.
15. (Currently amended) An article as claimed in claim 5, wherein the bimodal ~~multimodal~~ polyethylene composition has a level of migration measured by immersion in olive oil of less than 10 mg/dm².
16. (Currently amended) An article as claimed in claim 5, being medical or food packaging or a closure means.
17. (Currently amended) A process for the preparation of an injection moulded article as claimed in claim 5, comprising:
 - (I) polymerizing ethylene and butene ~~optionally at least one C₄₋₁₂ alpha olefin~~ in a loop reactor in the presence of a metallocene catalyst;
 - (II) transferring the resulting polymer with the metallocene catalyst to a gas phase reactor and polymerizing either (a) ethylene and 1-hexene, or (b) ethylene, 1-butene and a C₆ to C₁₂ at least one C₄₋₁₂ alpha olefin, so as to form a bimodal ~~multimodal~~ polyethylene composition having a MWD of 2 to 10 and a density of 905 to 930 kg/m³ comprising as comonomers to ethylene at least two C₄₋₁₂ alpha olefins; and
 - (III) injection moulding said composition.
18. (Canceled)
19. (Canceled)
20. (Currently amended) An article as claimed in claim 5, wherein said polyethylene composition comprises an ethylene/1-butene copolymer fraction and either an ethylene/1-hexene copolymer fraction or an ethylene/1-butene/1-hexene terpolymer fraction.